

FIG. 2

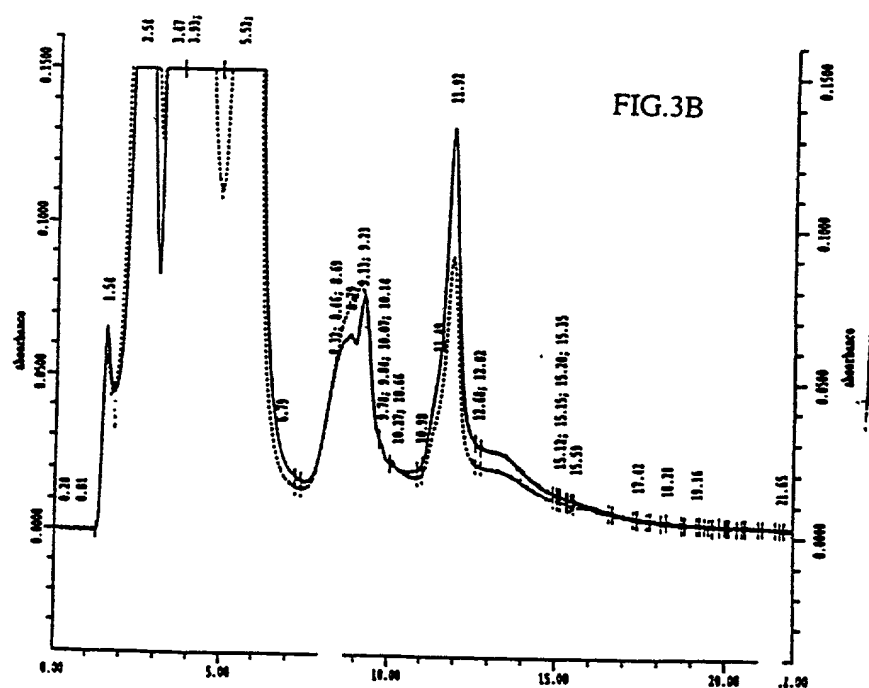
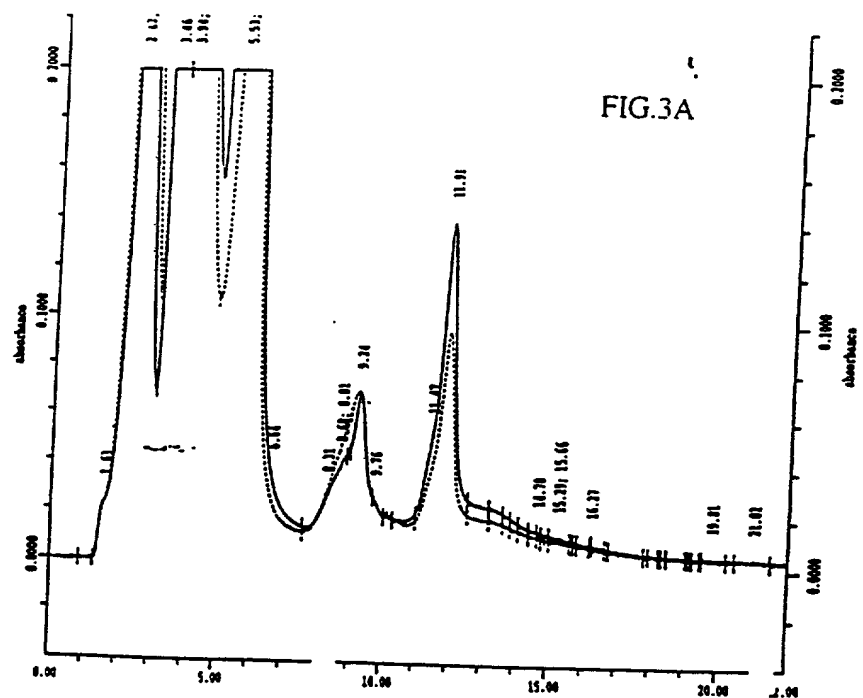


Figure 1 displays two infrared (IR) spectra of poly(2-vinylpyridine). The top spectrum is the original, and the bottom spectrum is the deconvoluted version. The x-axis represents wavenumber in cm⁻¹, ranging from 0.00 to 21.00. The y-axis represents absorbance, ranging from 0.0000 to 0.1500. The deconvoluted spectrum shows several peaks labeled with their corresponding wavenumbers: 2.42, 3.46, 3.972, 5.422, 7.00, 7.35, 7.51, 8.25, 8.47, 8.71, 8.81, 9.45, 9.53, 11.30, 11.32, 11.33, 11.91, 12.75, 12.76, 12.83, 15.13, 16.59, 17.70, 20.00, 21.20, 21.71, and 21.72.

FIG.3D

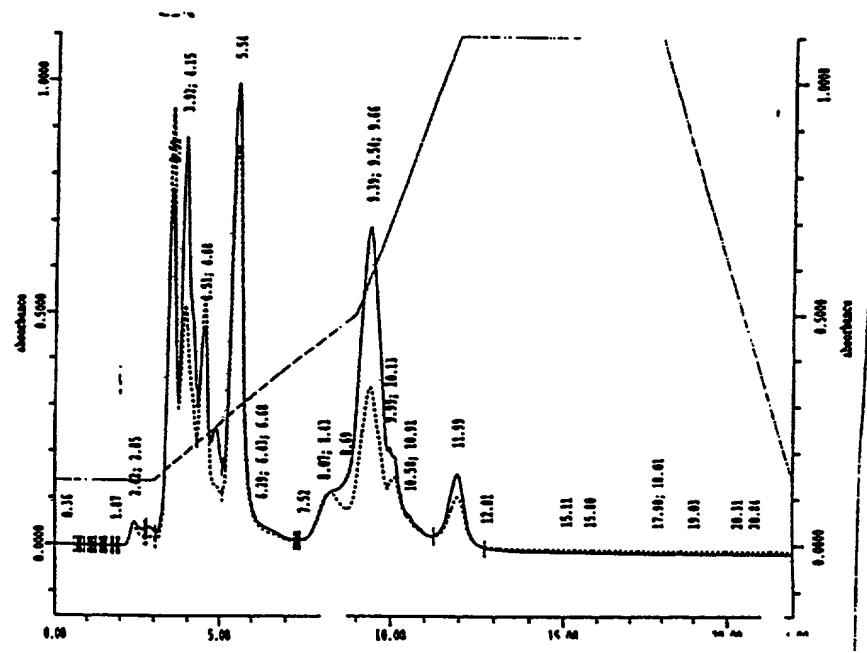
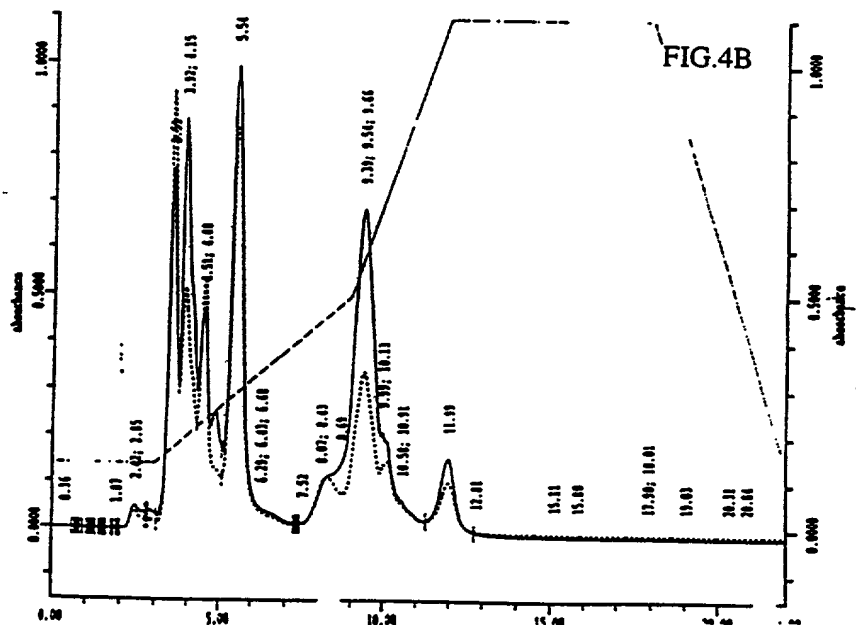
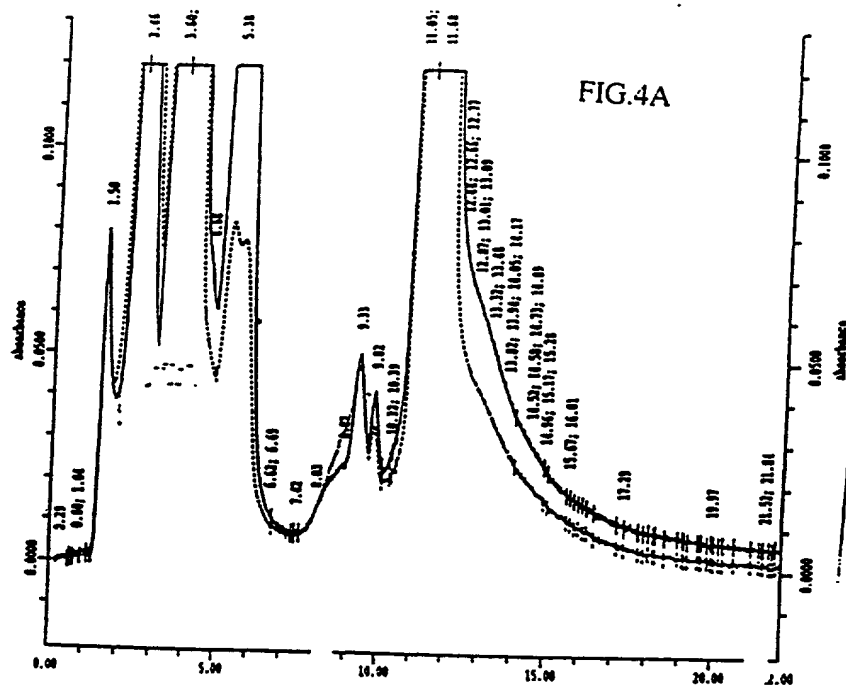


FIG.3E



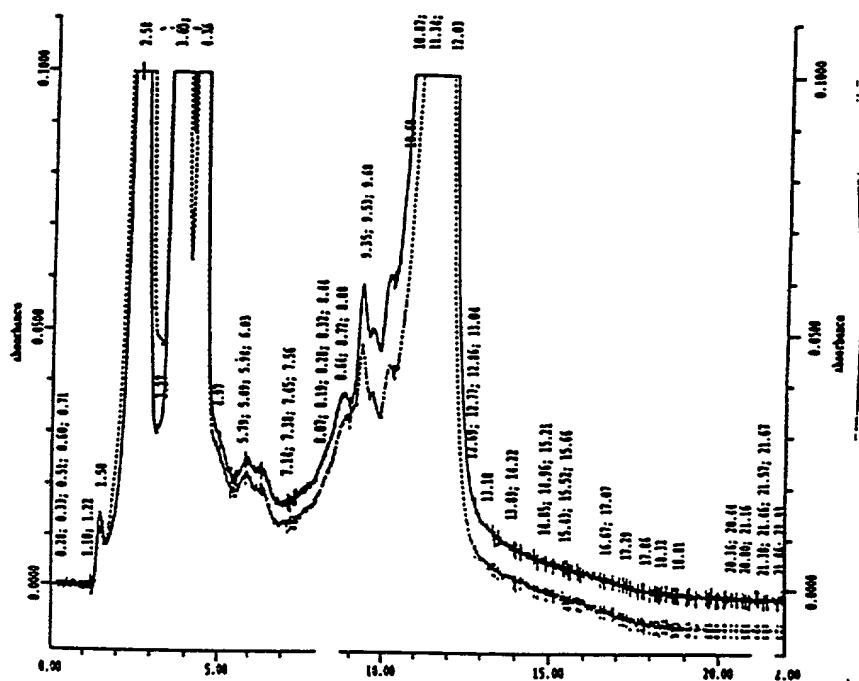


FIG.5

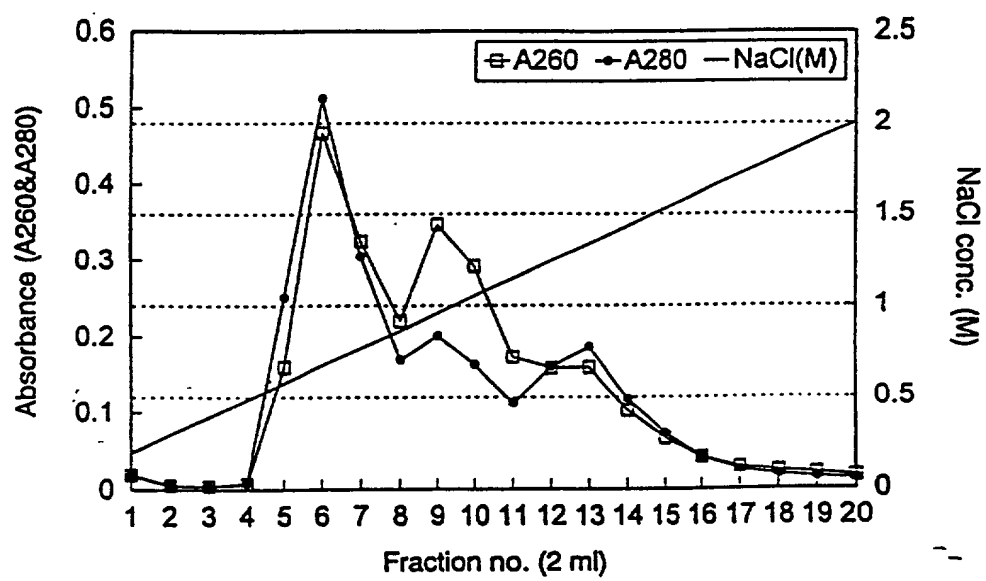


FIG.6

1003491.122701

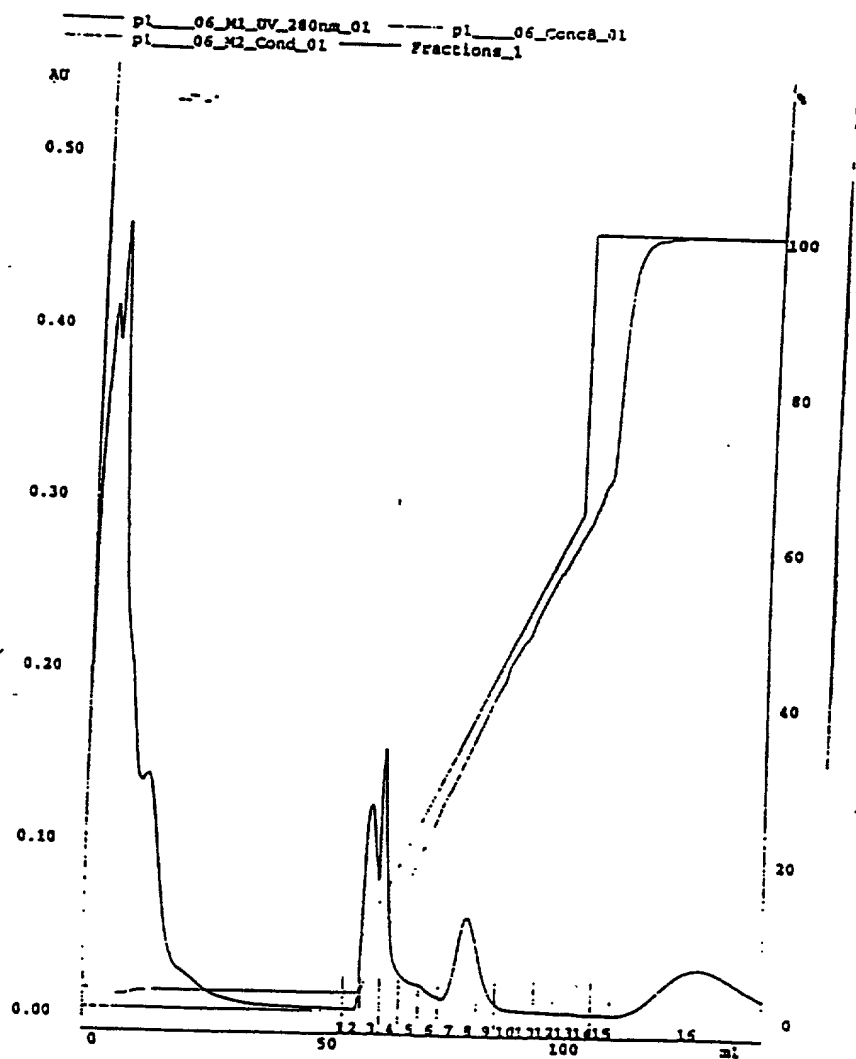


FIG.7

10022764601

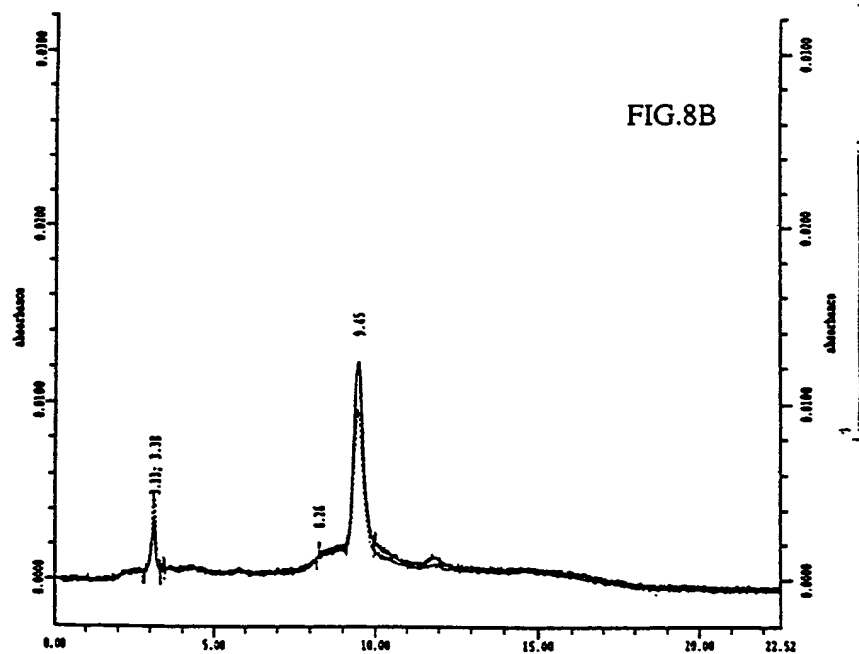
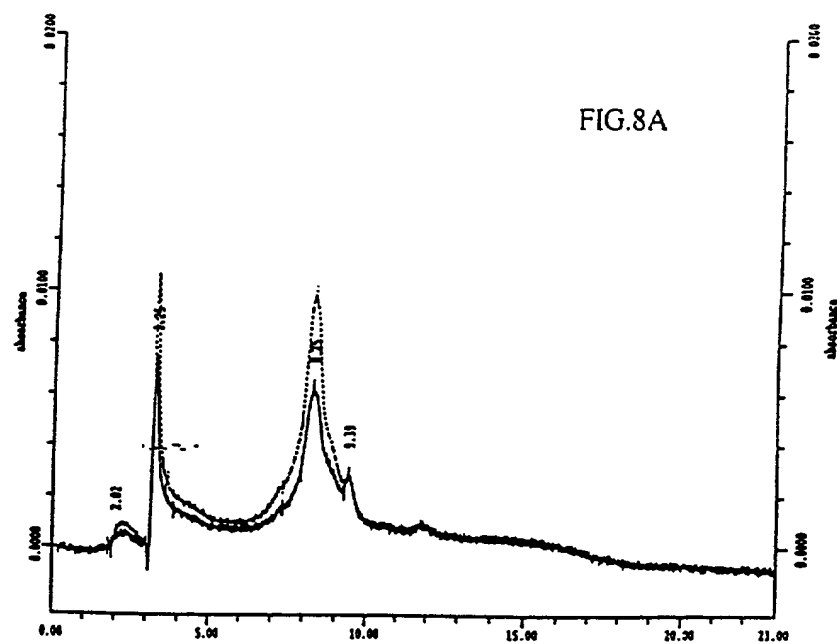
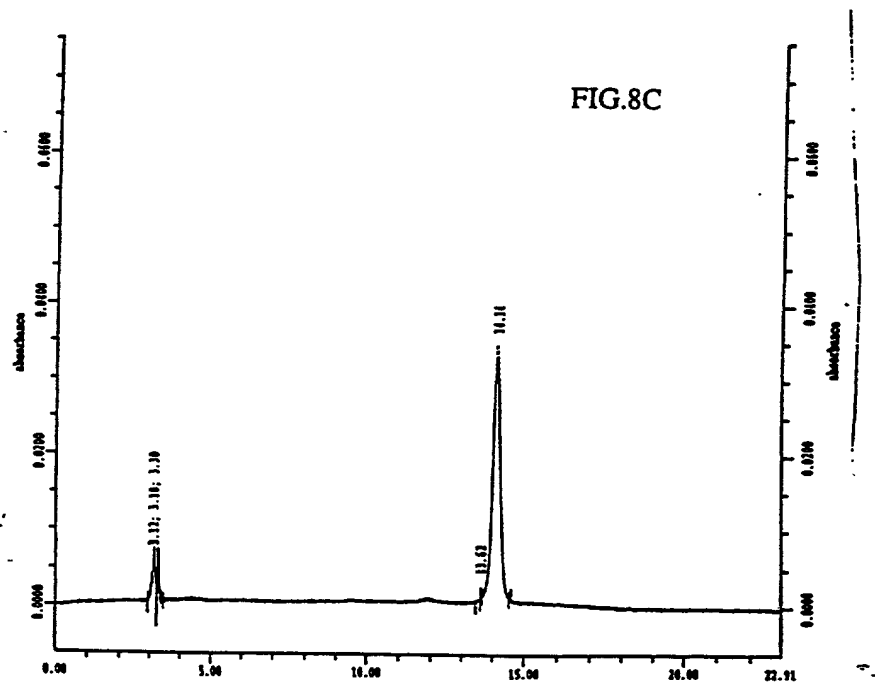


FIG.8C



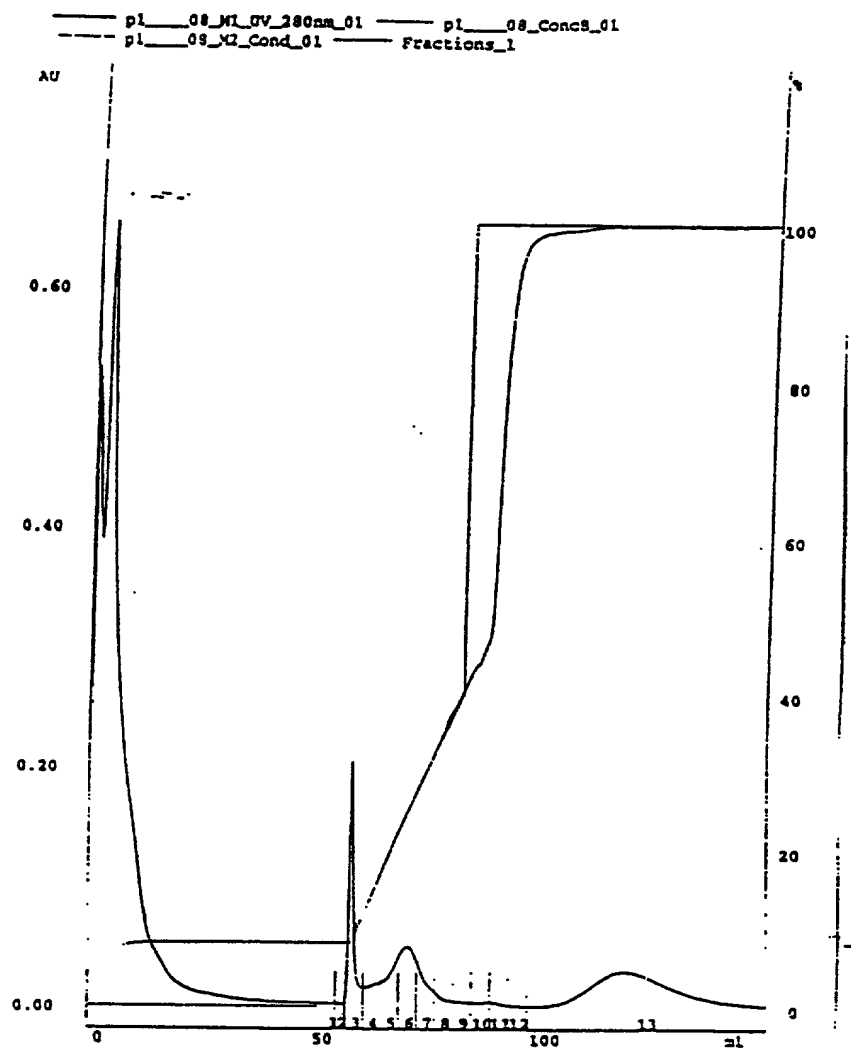
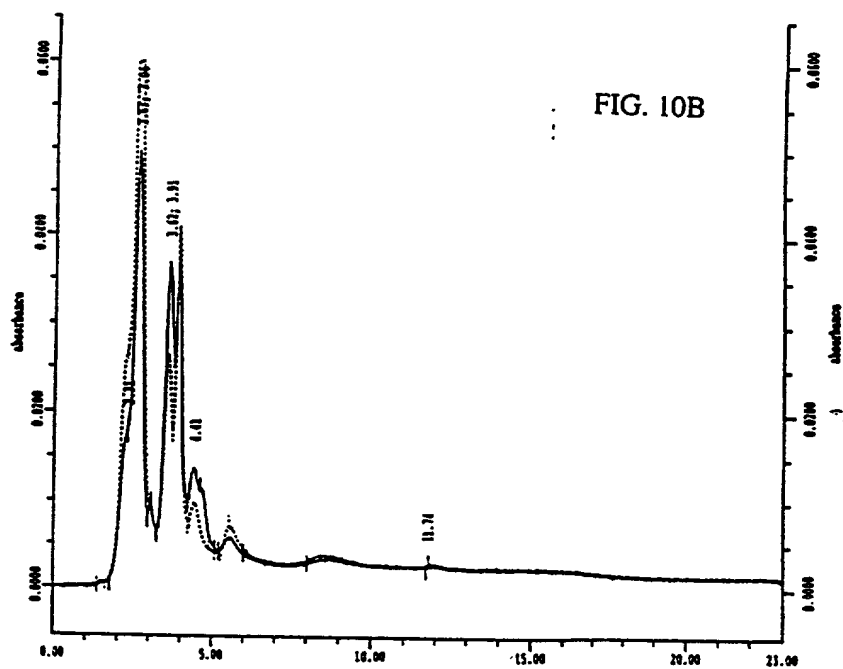
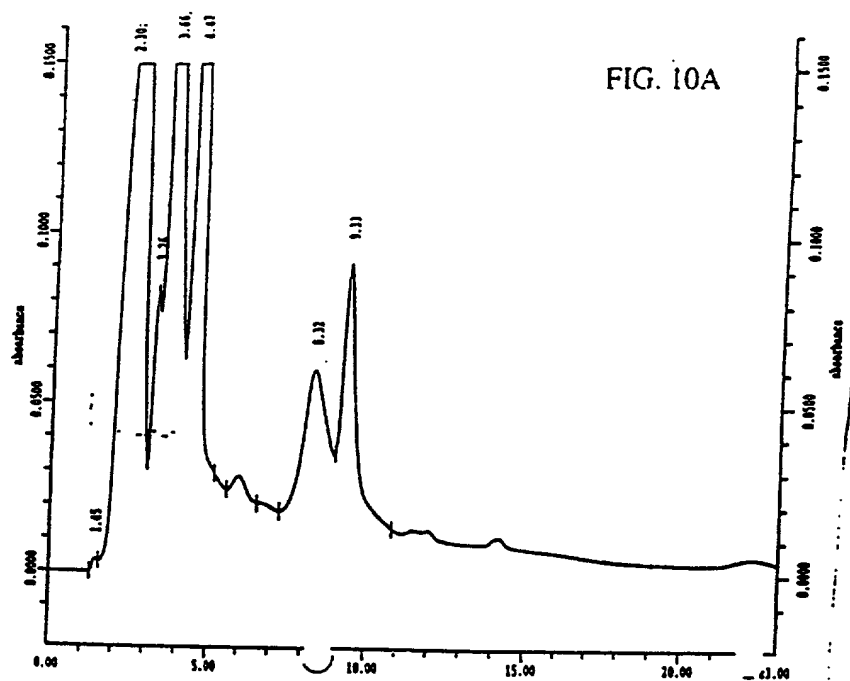
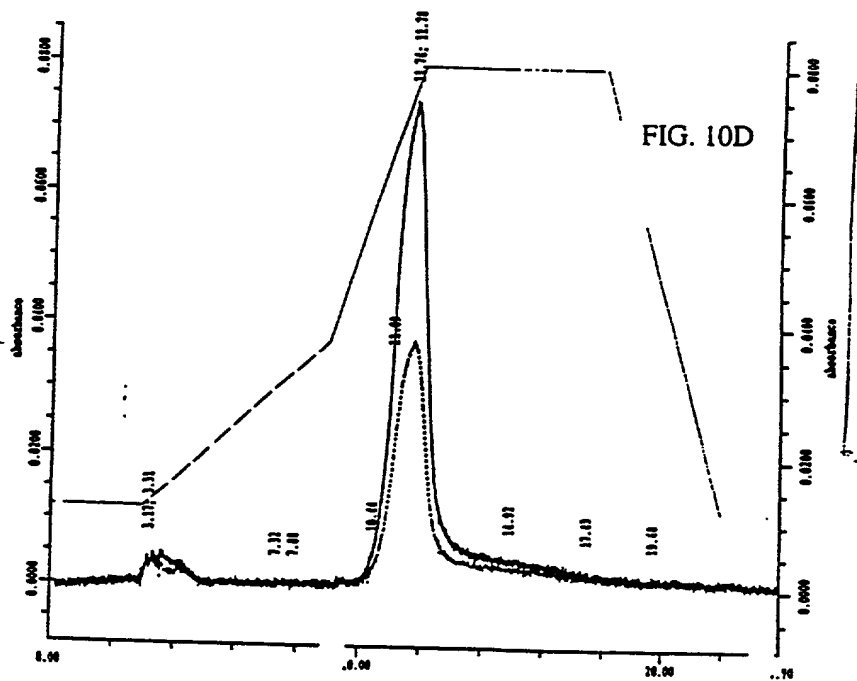
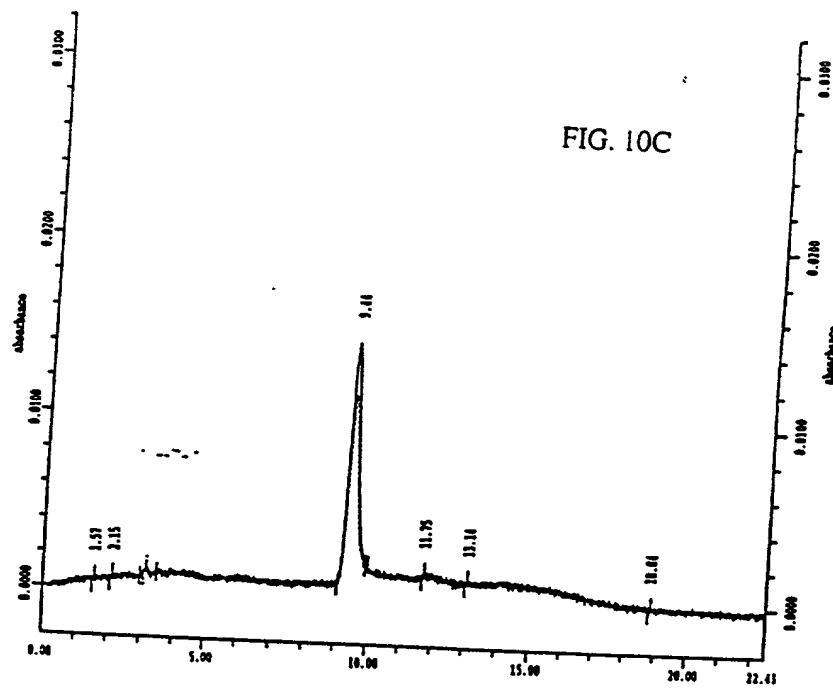
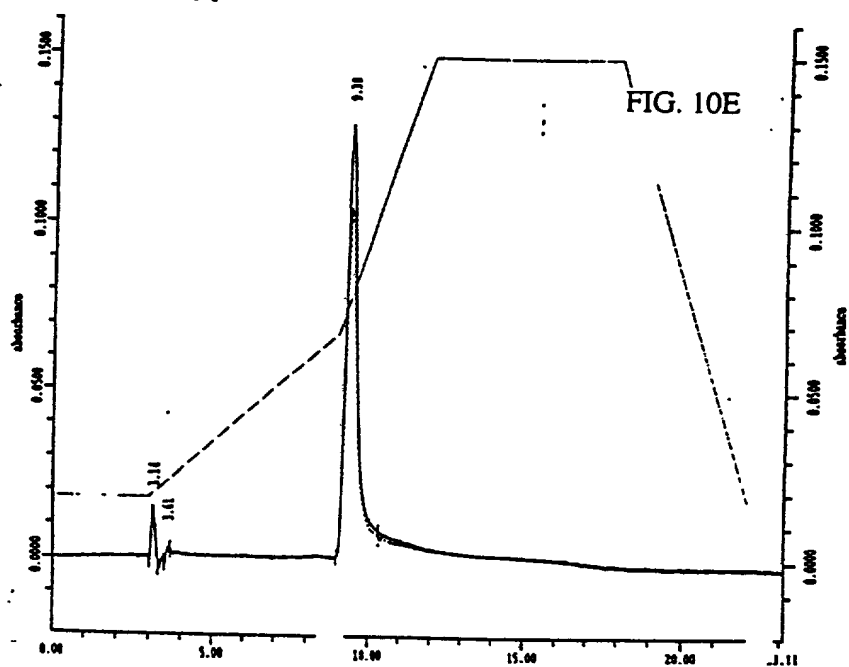


FIG. 9







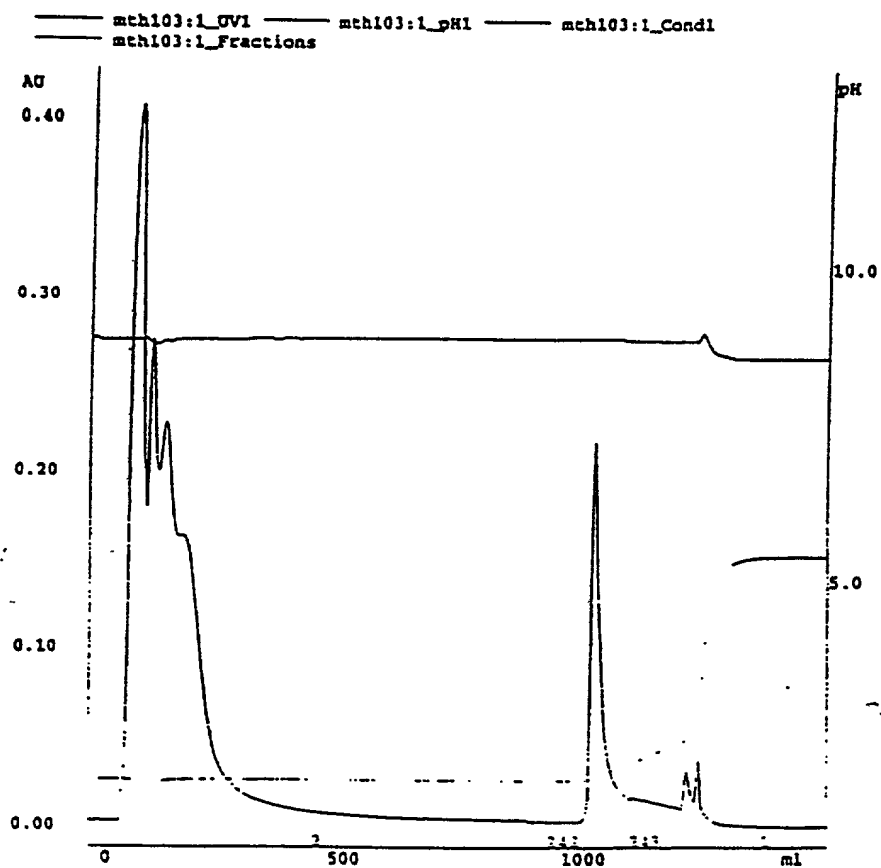


FIG. 11

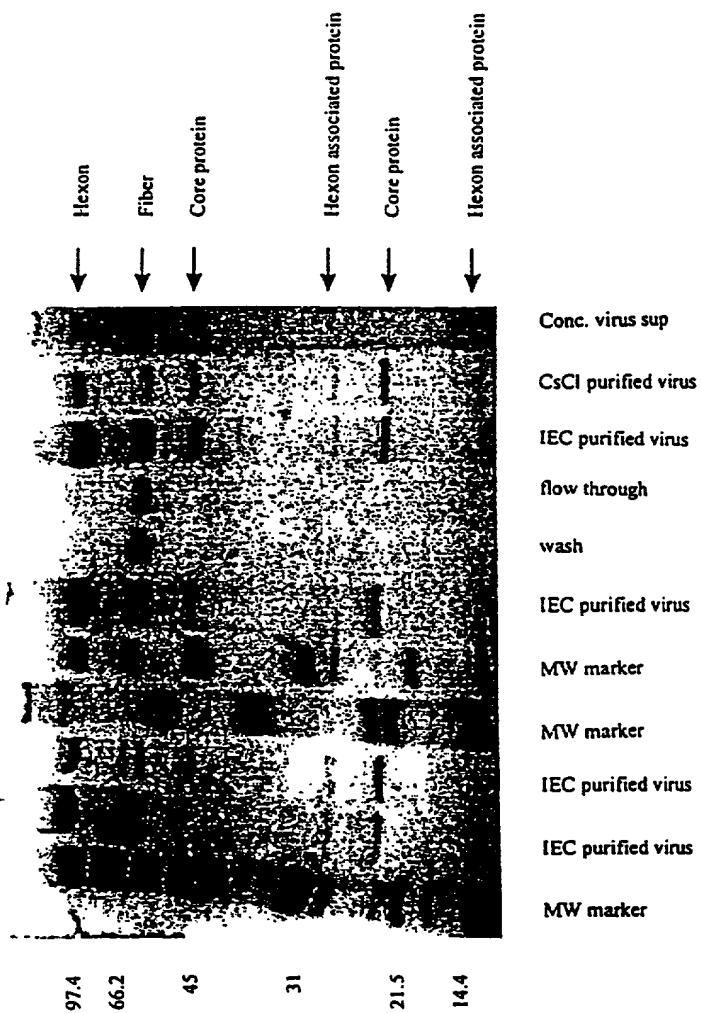


FIG. 12

66.2 kd

Novex MWM

BSA Std

Vector sup

Conc./diafil. sup

IEC purified Adp53

CsCl purified Adp53

BSA Std

Flow thru

Wash

Novex MWM

FIG. 13

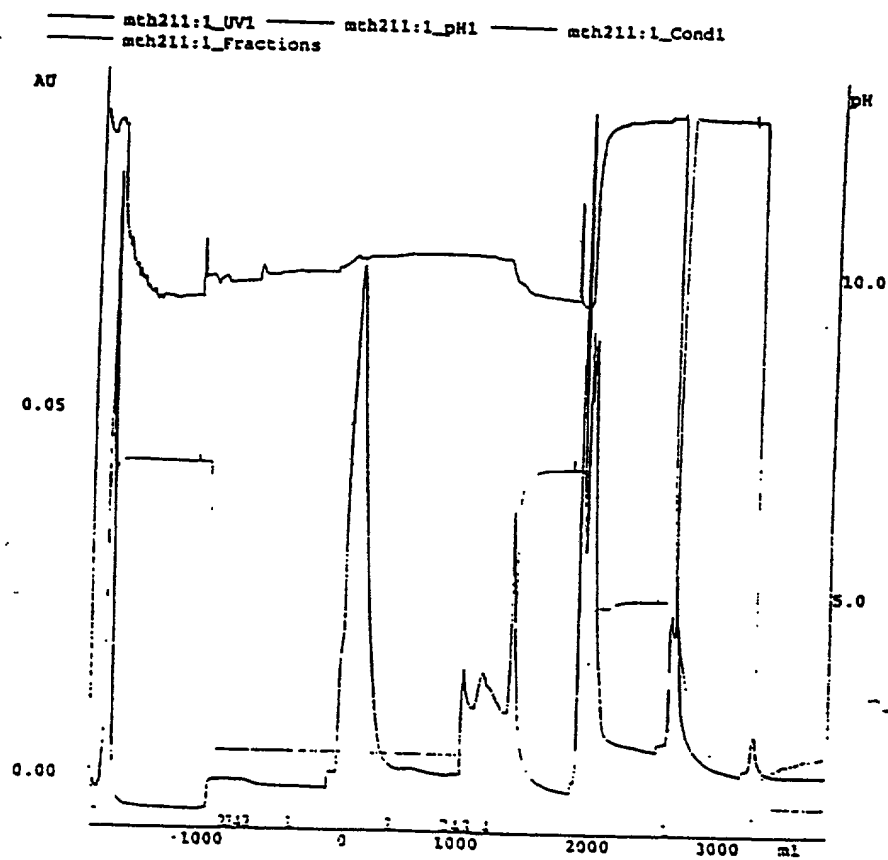


FIG. 14

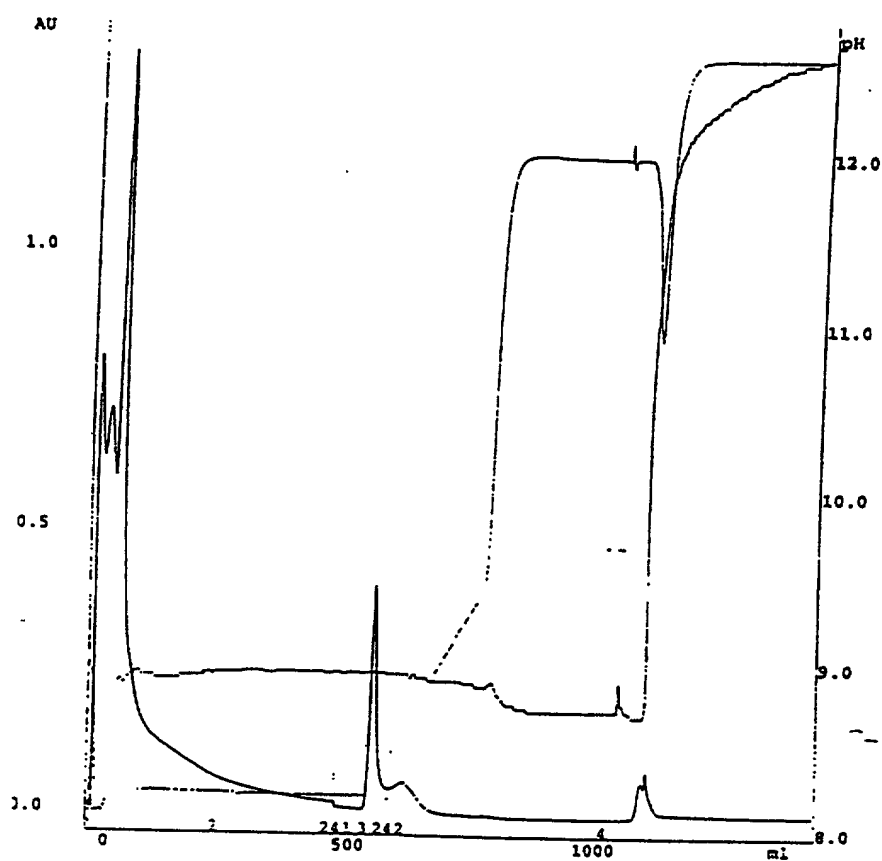
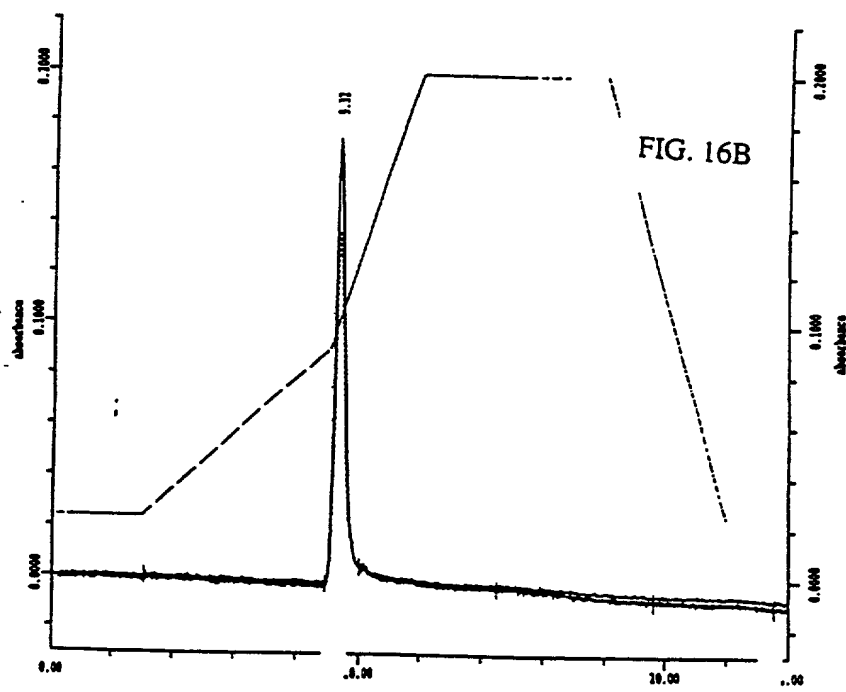
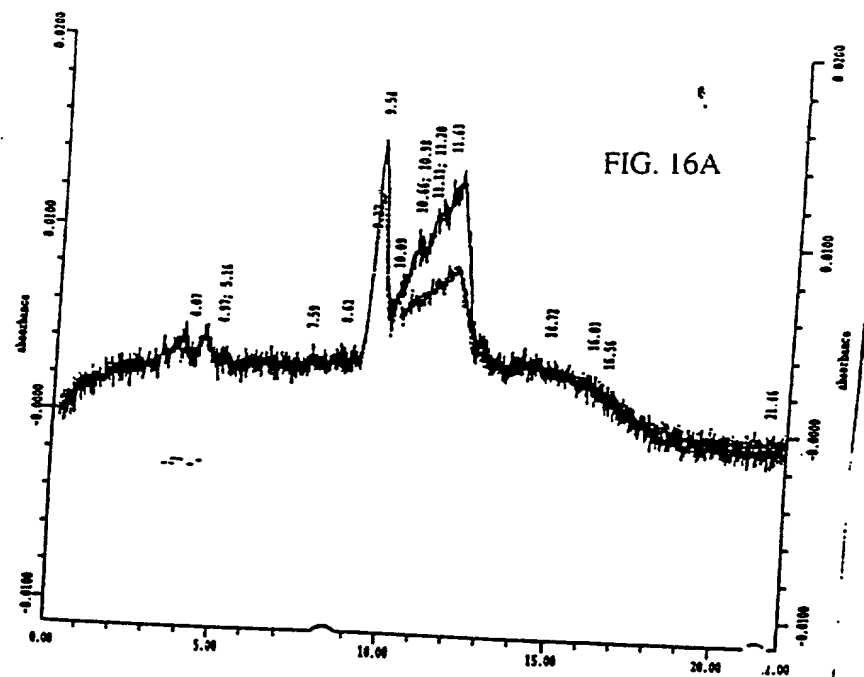


FIG. 15



1003449.122704

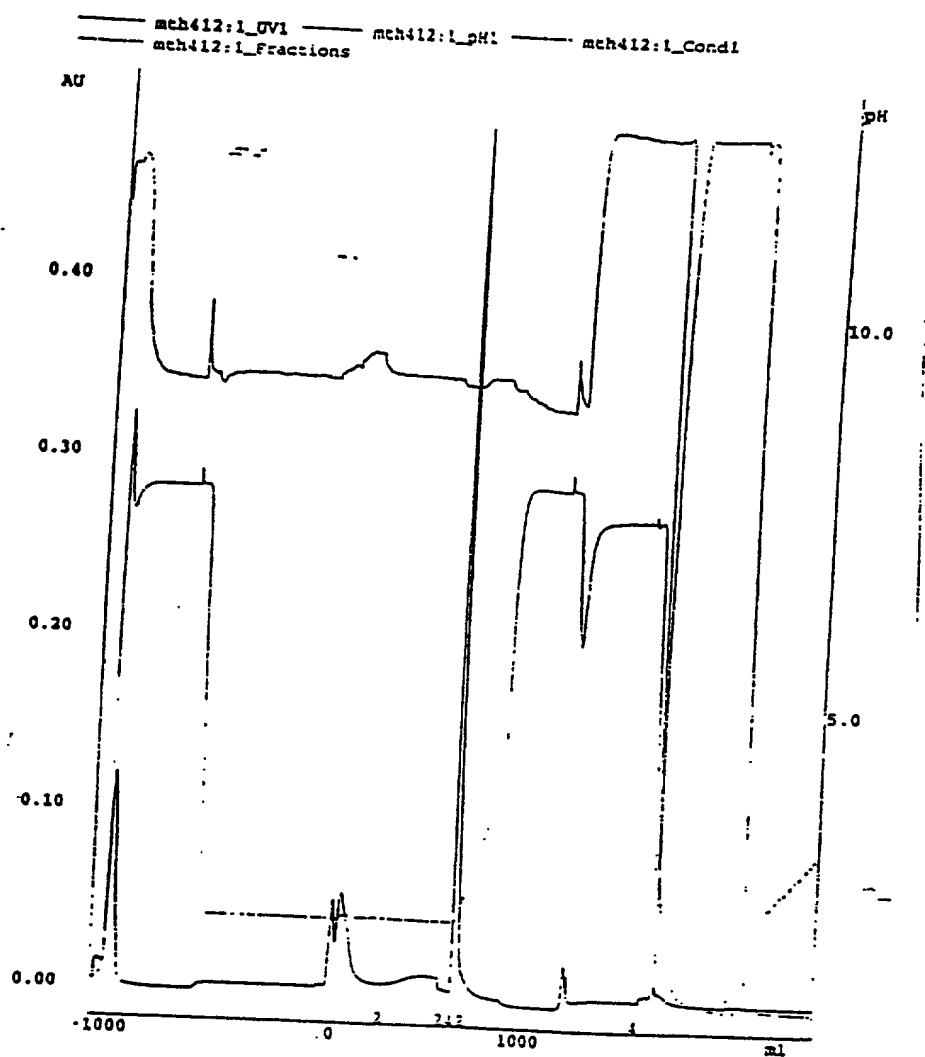


FIG. 17

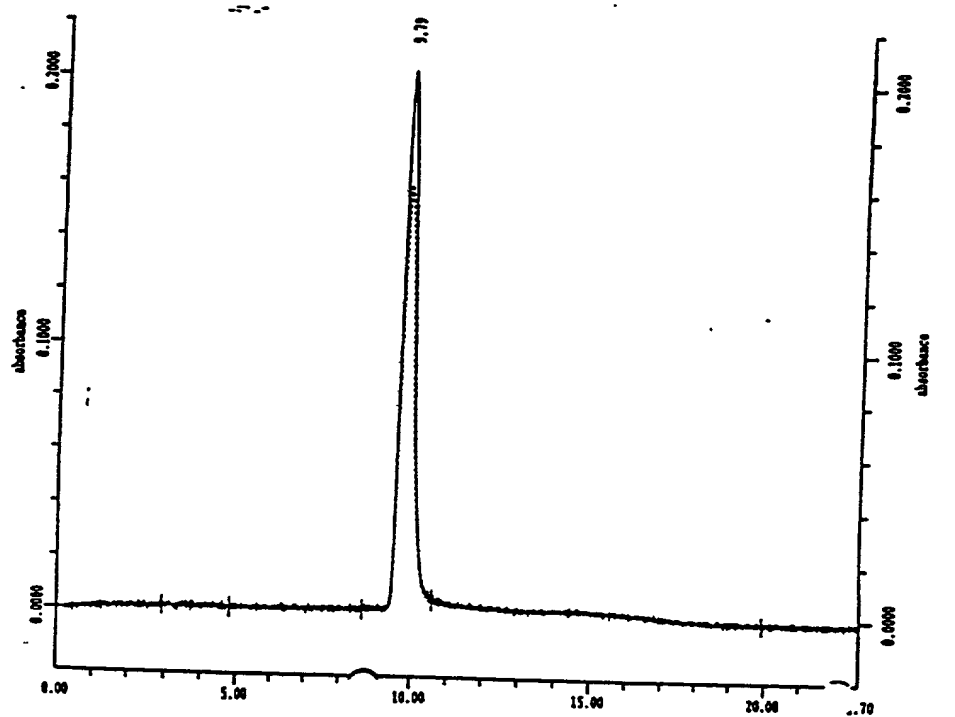
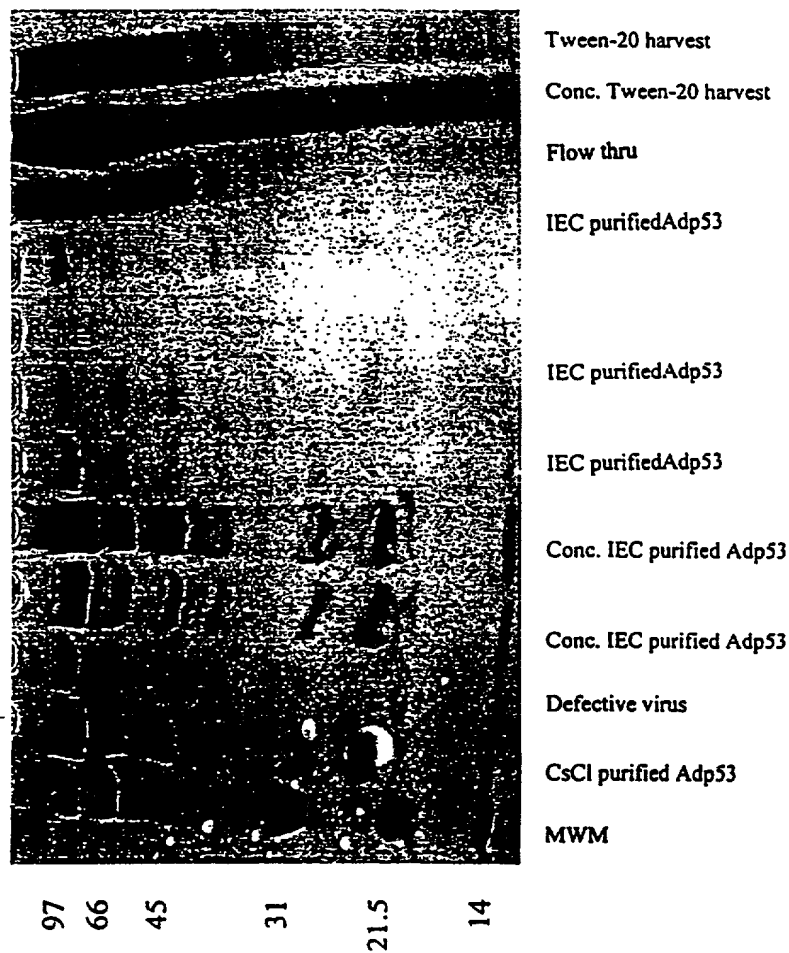


FIG. 18

FIG. 19A





MW marker

Conc./diafil. virus sol.

Flow through

IEC purified virus

Blank

MW marker

IEC purified virus

FIG. 19B

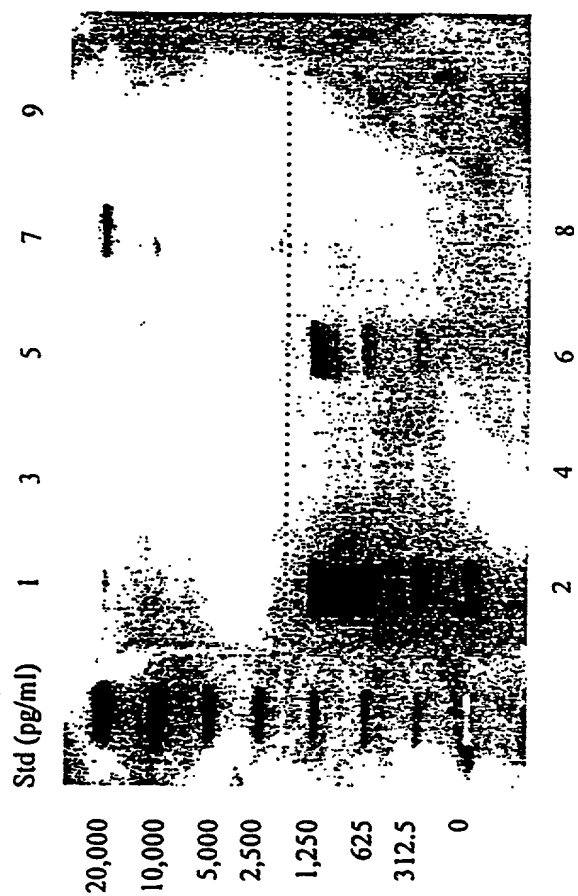
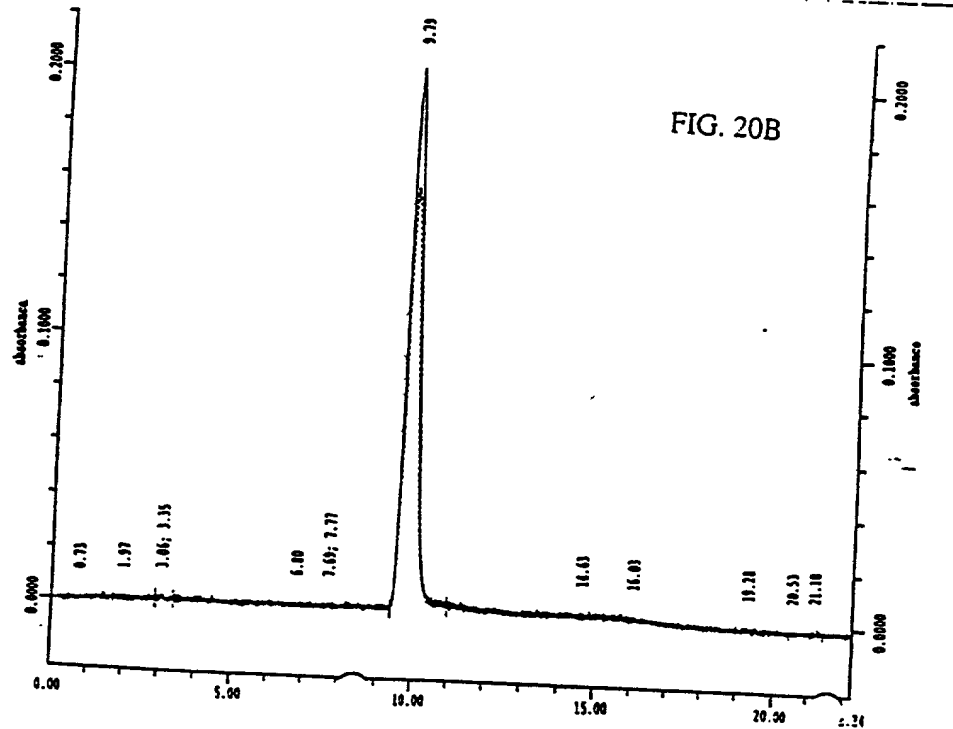
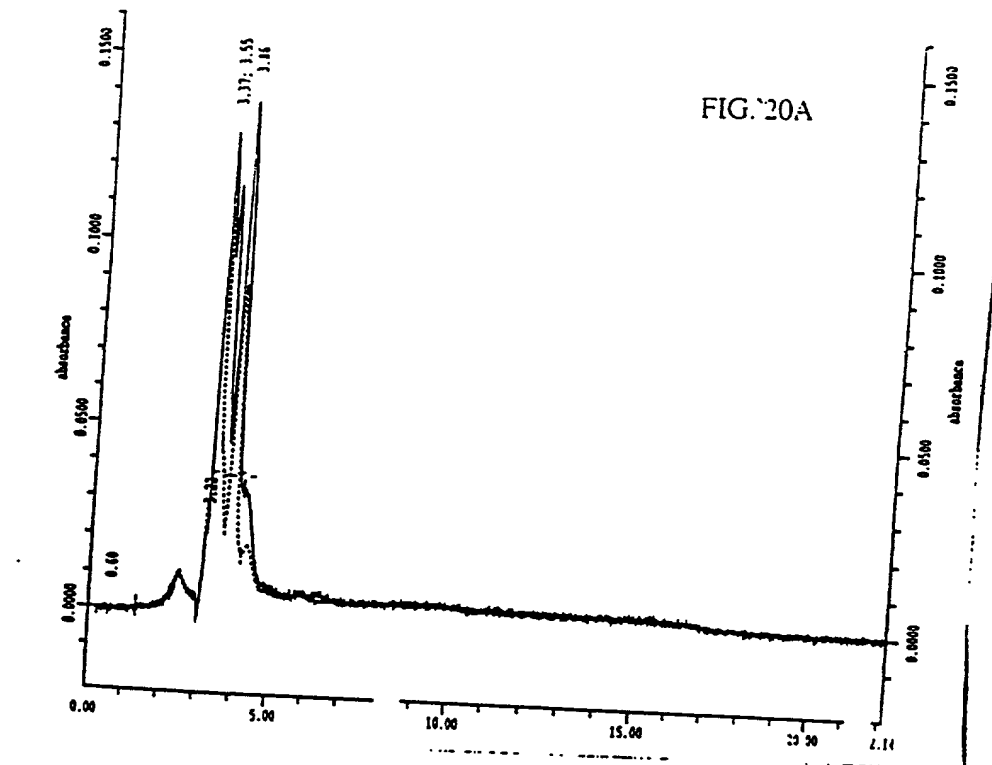
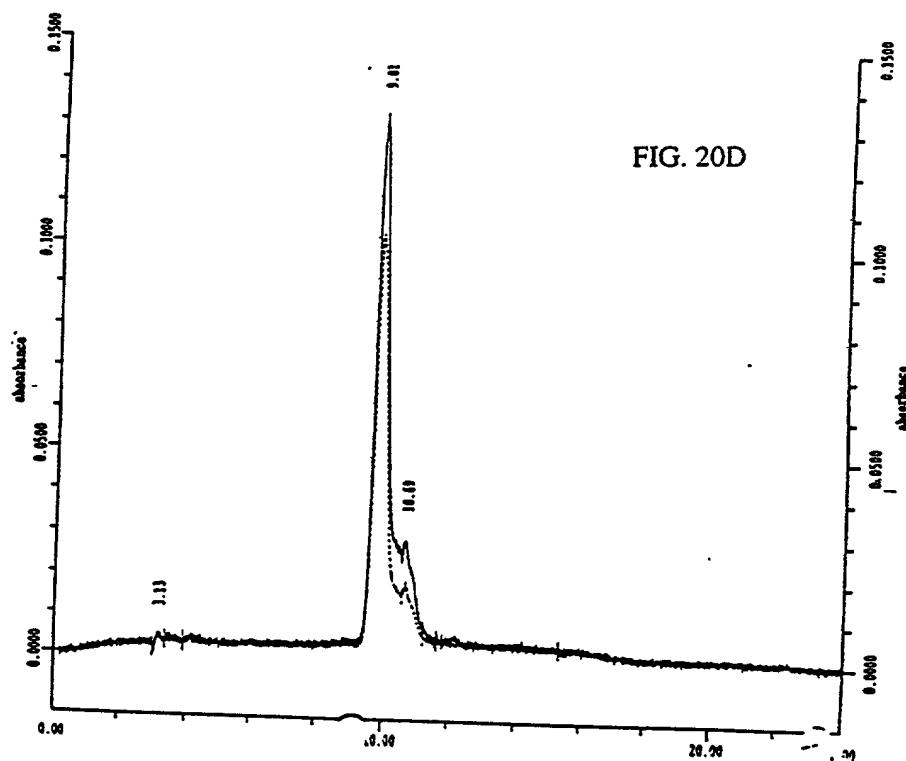
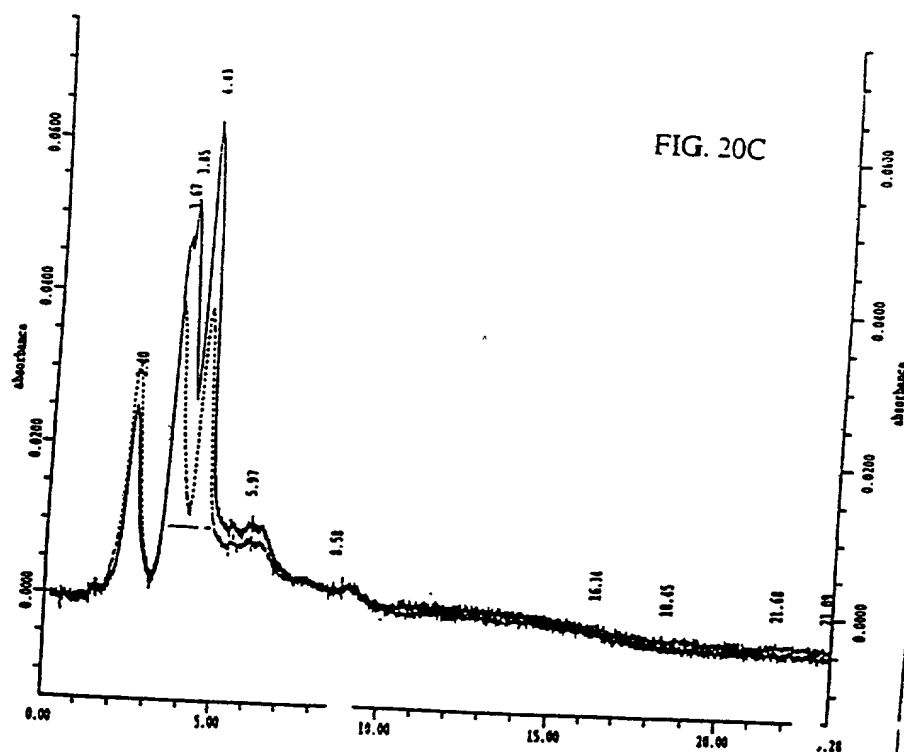
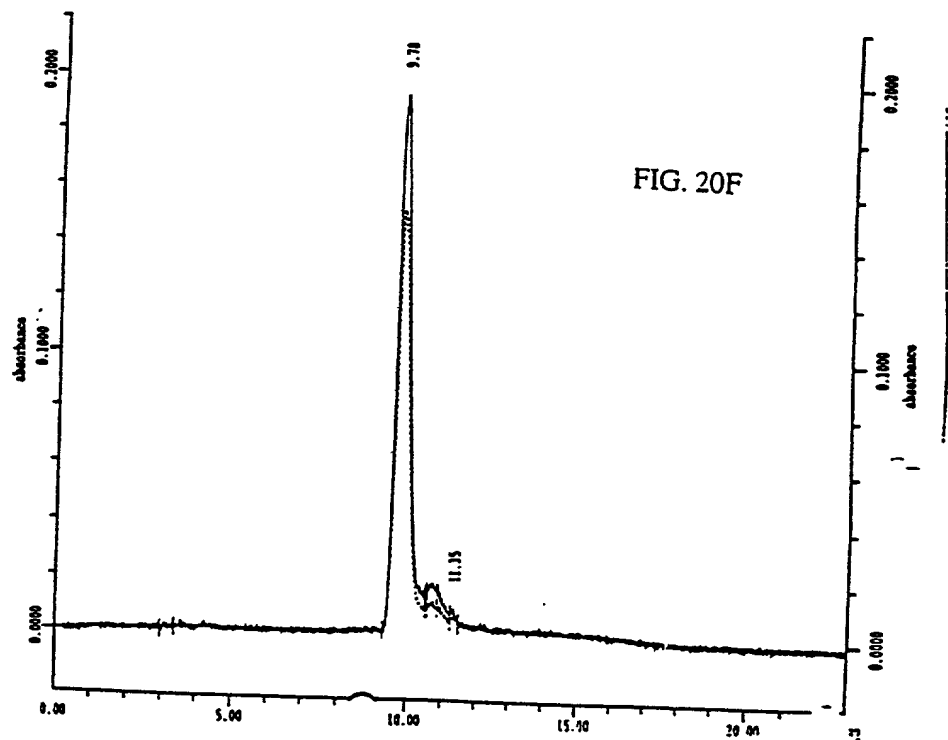
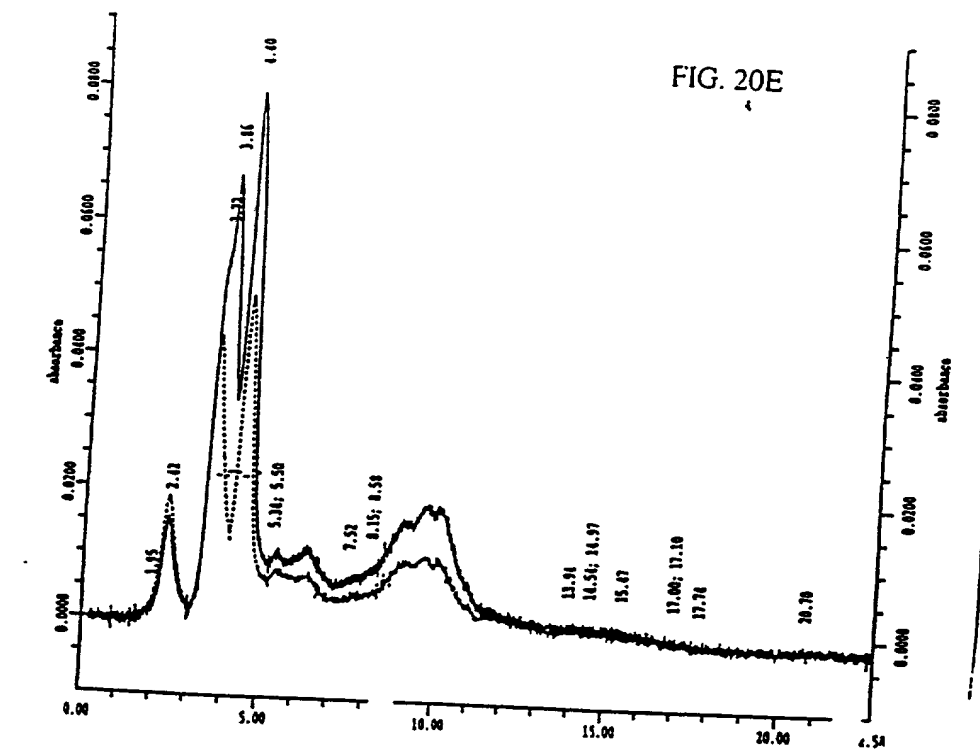


FIG. 19C





[illegible]

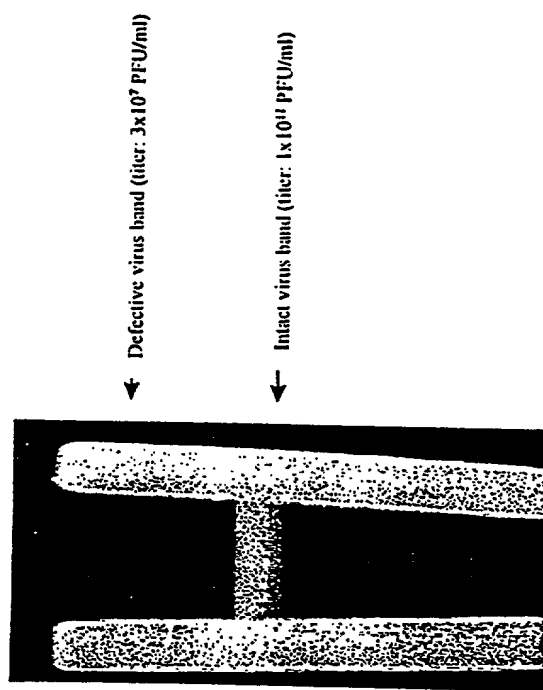
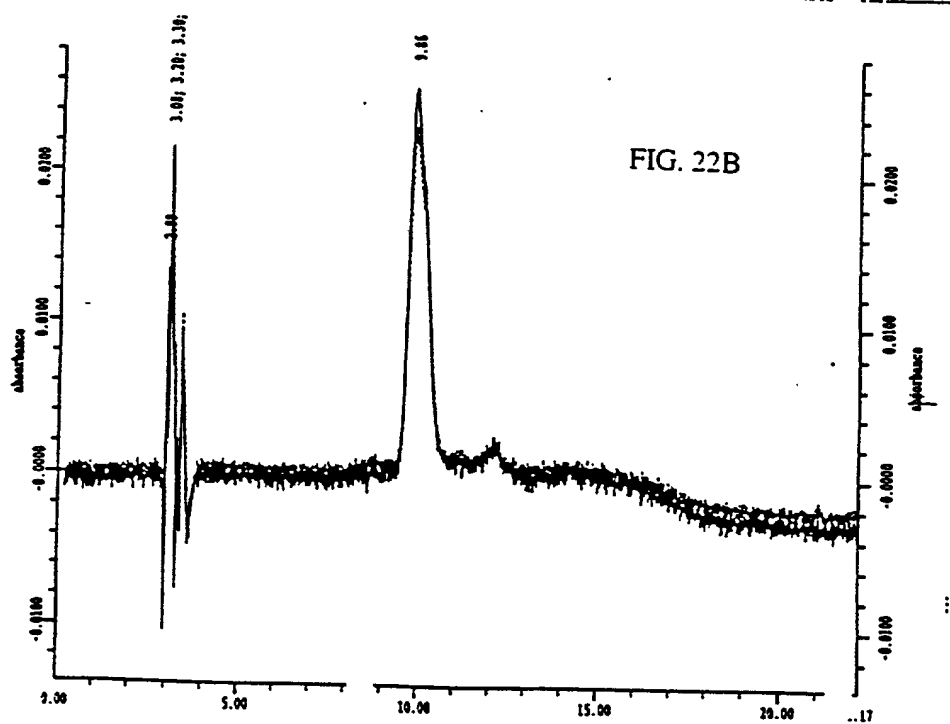
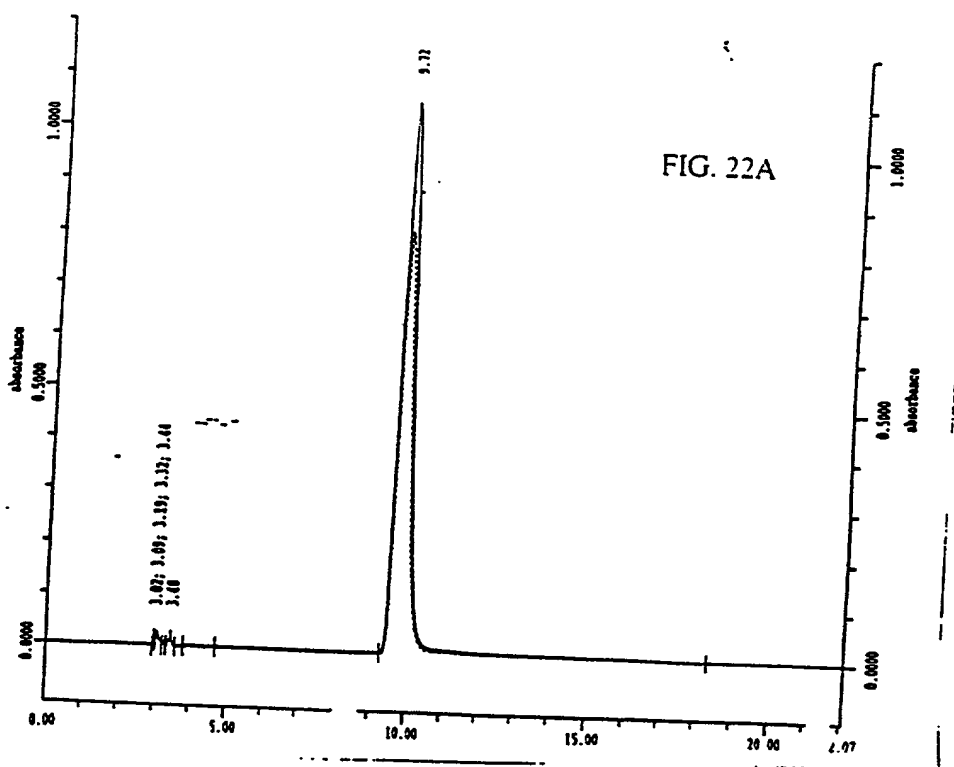


FIG. 21



		Titer (PFU/ml)	Vol. (ml)	Yield (PFU)	Recovery (%)	
					Step	Acc.
Cube	(low perfusion rate, keep glucose > 1g/L)					
	↓ 1% Tween-20 in buffer A					
Harvest						
	↓ Clarification and Filtration (0.22 um)					
Virus solution		2.6x10 ⁹	1900	4.9x10 ¹²		
	↓ Conc./diaf. (10-fold conc., diaf. into 1M NaCl buffer A)					
Conc. sup		2.5x10 ¹⁰	200	5x10 ¹²	102%	
	↓ Benzonase treatment (O/N, RT, 100u/ml)					
Treated sup						
	↓ Dilute with water to conductivity = 22-25 mS/cm					
Diluted virus solution		7x10 ⁹	700	4.9x10 ¹²	98%	100%
	↓					
Purified virus		1.5x10 ¹⁰	240	3.6x10 ¹²	73%	73%
	↓ conc./diaf (5-fold conc.)					
Final purified product		7x10 ¹⁰	50	3.5x10 ¹²	97%	71%

FIG. 23